Flu Vaccine Packing Protocols for 2003 Season

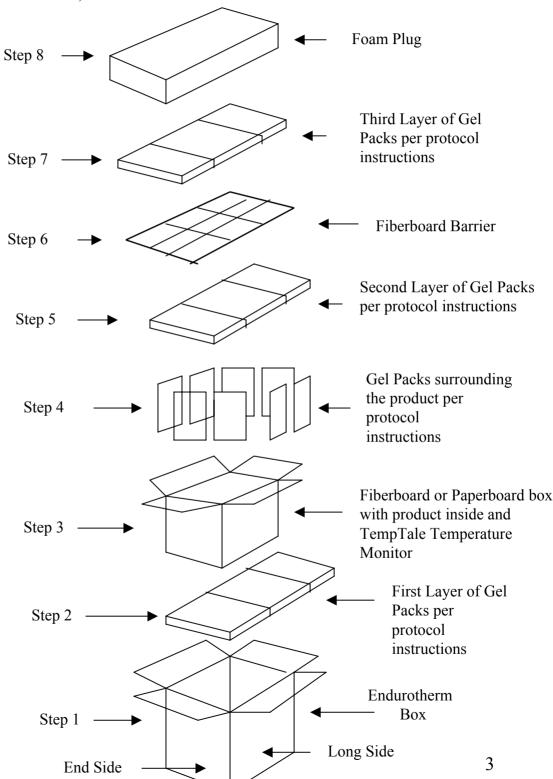
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Endurotherm (ISC) Box Packing Steps

The packing or layering of the Endurotherm boxes is the same in principle for all four sizes (extra large, large, medium and small).



Cold Weather Packing Protocol

- Cold Weather Configuration is used when the ambient temperature at the **receiving site** is consistently below 55° F.
- Protocols are designed to keep temperature sensitive products requiring refrigeration temperatures between 2° C to 8° C within these temperature ranges during transportation, for up to 72 hours.
- 48 oz. and 24 oz. gel packs are used in all boxes for layering and void space filler.
- Coolant material must be placed in layers according to attached diagrams. Cold Weather configurations only use refrigerated gel packs. (See cold weather packing configuration diagrams.)

Cold Weather Packing Protocol Procedures

The Cold Weather Packing Protocol is used whenever the ambient or outside temperature at the receiving site consistently remains below 55 degrees Fahrenheit. Begin the Cold Weather packing protocol by:

- o Placing a layer of refrigerated gel packs at the bottom of the box.
- o Next item will be the product.
- o Place gel packs around the product's side(s) to fill in gap between product and the insulated walls of the box.
- o This is followed by placing an activated TempTale electronic temperature monitor on top of the product, activate the TempTale temperature monitor by inserting the tip of an ink pen in the black plastic hole at the bottom of the TempTale, once the button is released the green light located in the face of the TempTale should blink eight (8) times, wait 10 to 20 seconds and press again, this time the green light should blink twice (2), the TempTale is now activated, peel off the tape in the back of the TempTale and place it centered on top of the product.
 - o Follow with another layer of refrigerated gel packs.
 - o Above the second layer of refrigerated gel packs insert a fiberboard barrier.
 - o Add a final layer of refrigerated gel packs above the fiberboard barrier.
 - o Finally, insert the foam plug to seal the contents of the box.

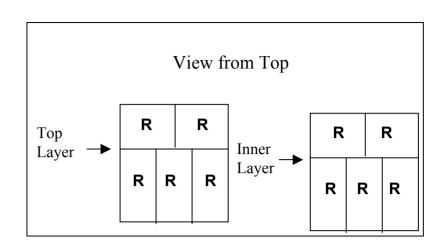
Notes:

- o Follow procedures according to each protocol diagram of ISC box used.
- o To chill large amounts of gel packs at once, place gel pack boxes inside a refrigerator that has been set to 4° C for at least 30 days prior to use.
- o To quickly chill small amounts of gel packs, place them in a single layer inside a refrigerator as explained above for at least 24 hours prior use.

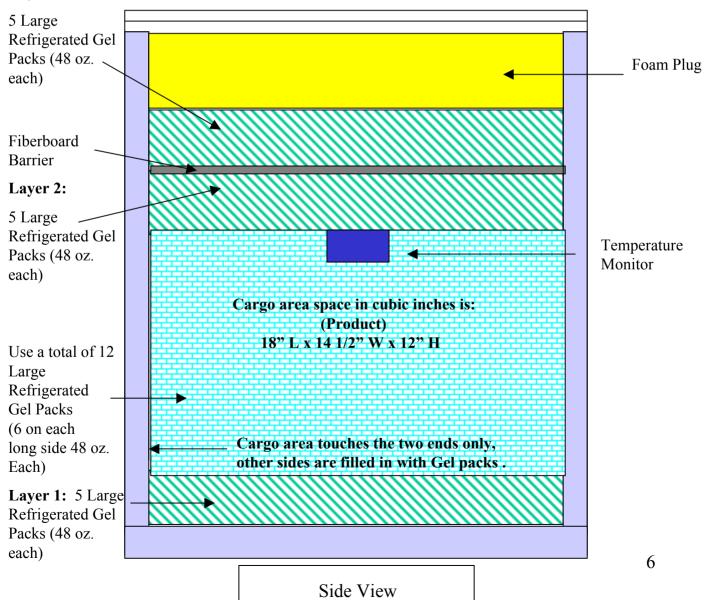
Extra Large (ISC Box, E-327) – Cold Weather Packing Protocol Diagram

Total amount of chilled Gel Packs = 27 **Approximate Weight:** Max load = 145 lbs

Max load = 145 lbsMin load = 120 lbs



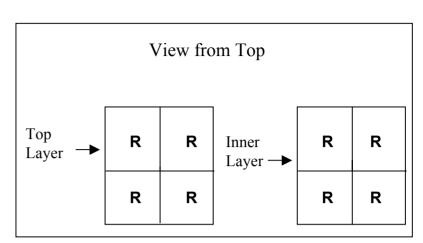
Layer 3:



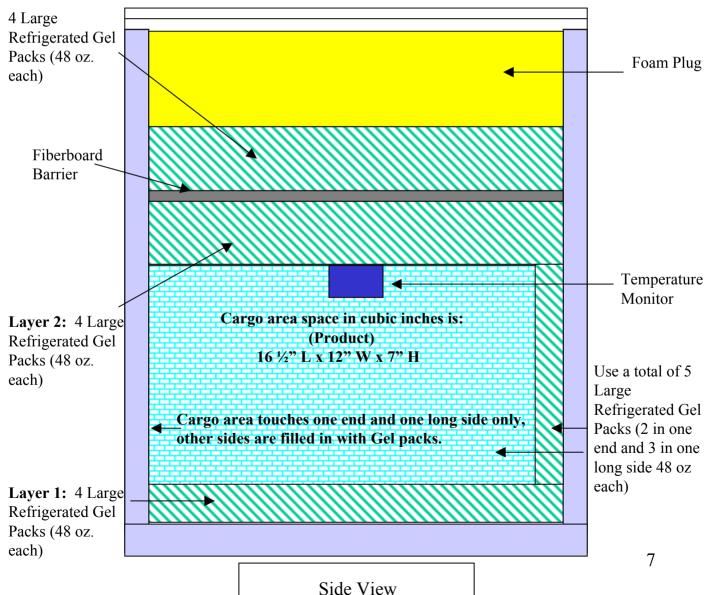
Large (ISC Box, E-186) – Cold Weather Packing Protocol Diagram

Total amount of chilled Gel Packs = 17 **Approximate Weight:** Max load = 75 lbs

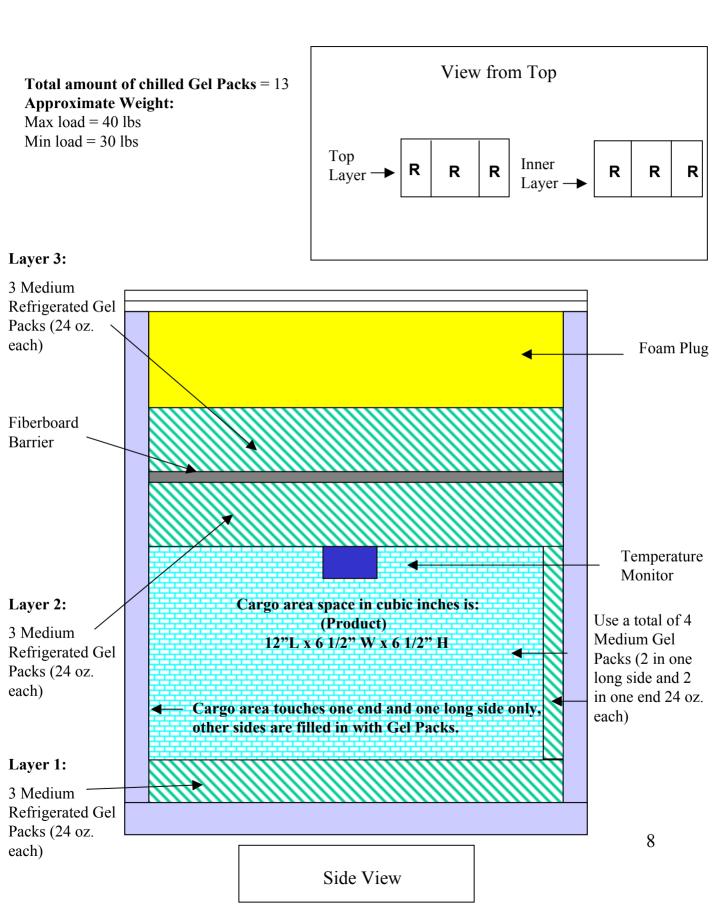
Min load = 50 lbs



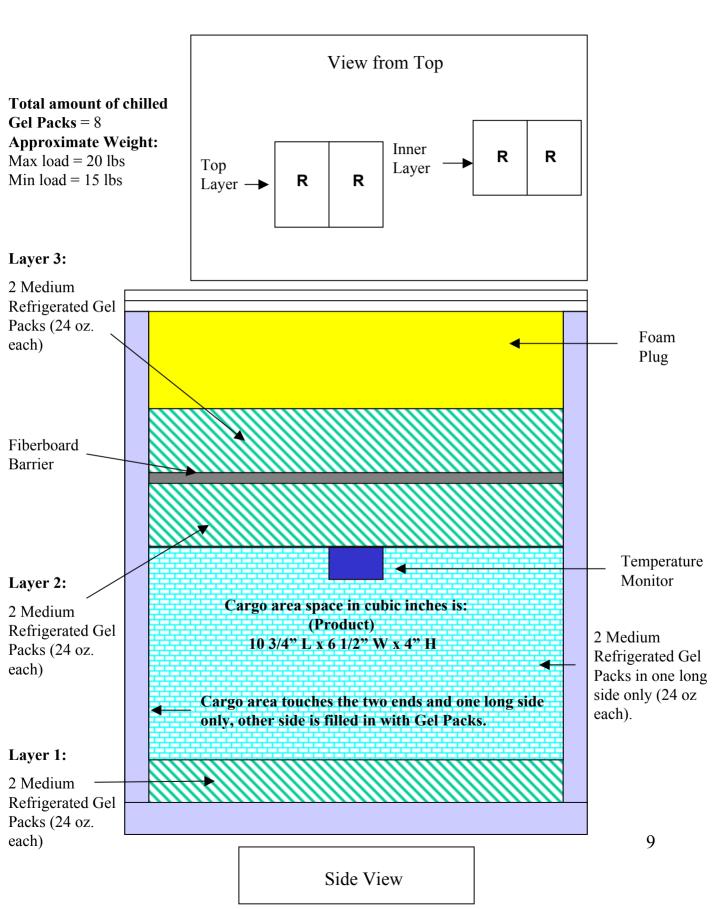
Layer 3:



Medium (ISC Box, E-65) – Cold Weather Packing Protocol Diagram



Small (ISC Box E-36-2) – Cold Weather Packing Protocol Diagram



Moderate Weather Packing Protocol

- Moderate Weather Configuration is used when the ambient temperature at the receiving site is between 55° F and 77° F.
- Protocols are designed to keep temperature sensitive products requiring refrigeration temperatures between 2° C to 8° C within these temperature ranges during transportation, for up to 72 hours.
- 48 oz. and 24 oz. gel packs are used in all boxes for layering and void space filler.
- Coolant material must be placed in layers according to attached diagrams. Moderate configuration uses a combination of refrigerated and frozen gel packs. Frozen gel packs are always farthest away from vaccine.

Moderate Weather Packing Protocol Procedures

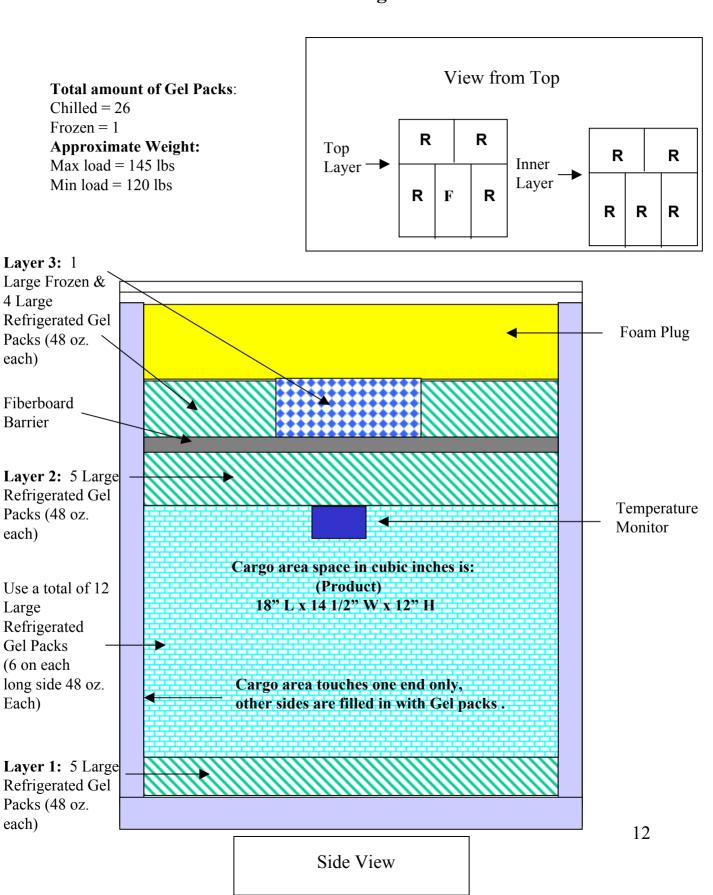
The Moderate Weather Packing Protocol is used whenever the ambient or outside temperature at the receiving site is between 55 degrees Fahrenheit and 77 degrees Fahrenheit. Begin the Moderate Weather packing protocol by:

- o Placing a layer of refrigerated gel packs at the bottom of the box.
- o Next item will be the product.
- o Place gel packs around the product's side(s) to fill in gap between product and the insulated walls of the box.
- o This is followed by placing an activated TempTale electronic temperature monitor on top of the product, activate the TempTale temperature monitor by inserting the tip of an ink pen in the black plastic hole at the bottom of the TempTale, once the button is released the green light located in the face of the TempTale should blink eight (8) times, wait 10 to 20 seconds and press again, this time the green light should blink twice (2), the TempTale is now activated, peel off the tape in the back of the TempTale and place it centered on top of the product.
 - o Follow with another layer of refrigerated gel packs.
 - o Above the second layer of refrigerated gel packs insert a fiberboard barrier.
- o Add a final layer of a combination of refrigerated and frozen gel packs above the fiberboard barrier.
 - o Finally, insert the foam plug to seal the contents of the box.

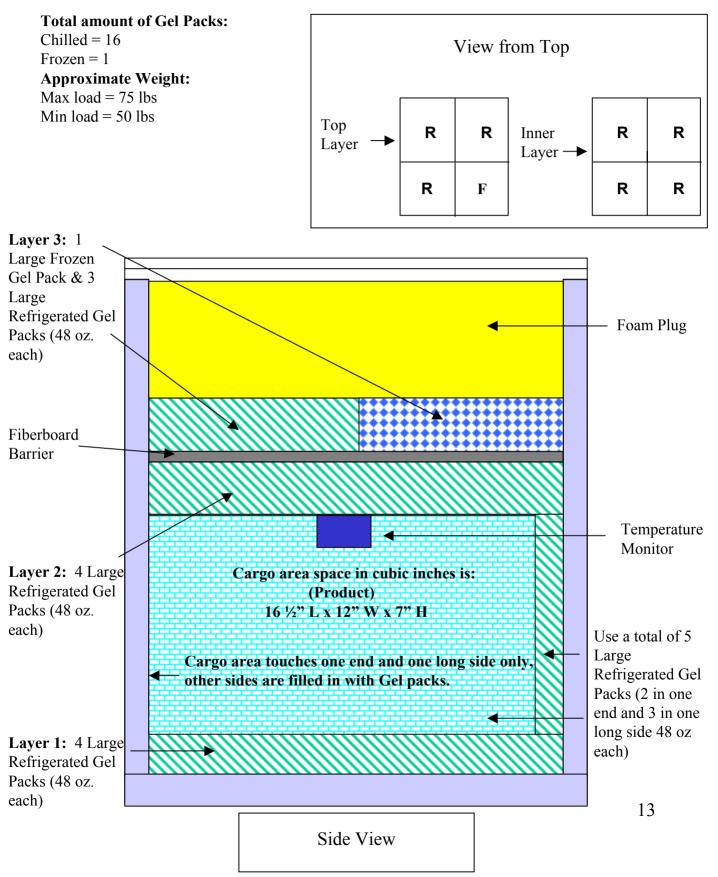
Notes:

- o Follow procedures according to each protocol diagram of ISC box used.
- o To chill large amounts of gel packs at once, place gel pack boxes inside a refrigerator that has been set to 4° C for at least 30 days prior to use.
- o To quickly chill small amounts of gel packs, place them in a single layer inside a refrigerator as explained above for at least 24 hours prior use.
- o To freeze large amounts of gel packs at once, place gel pack boxes inside a freezer that has been set to -17°C for at least 30 days prior use.
- o To quickly freeze small amounts of gel packs, place them in a single layer inside a refrigerator as explained above for at least 24 hours prior to use (lay them flat to ensure they maintain their original shape once they are frozen).

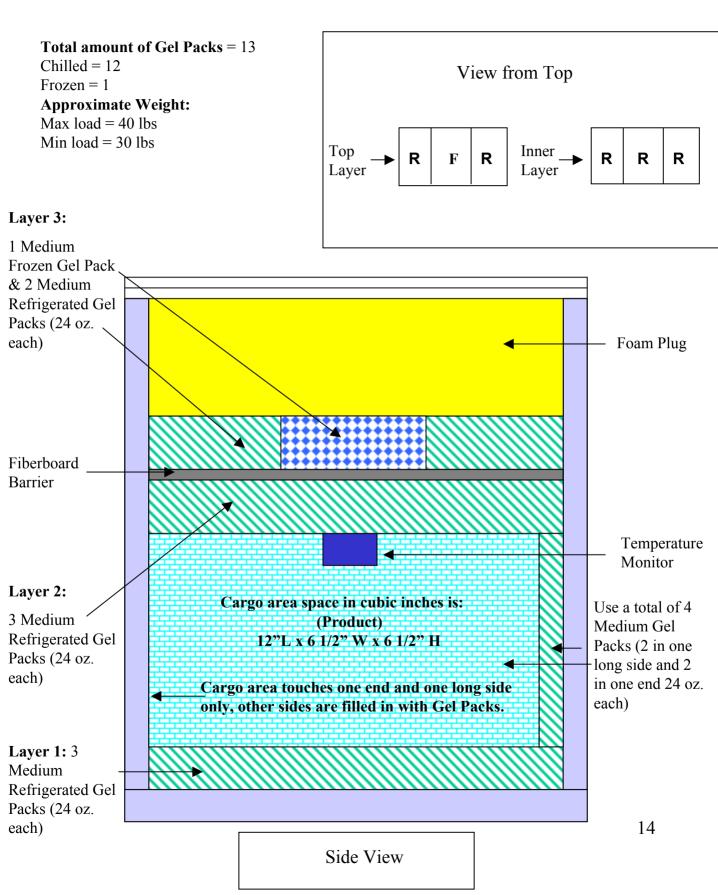
Extra Large (ISC Box, E-327) – Moderate Weather Packing Protocols Diagram



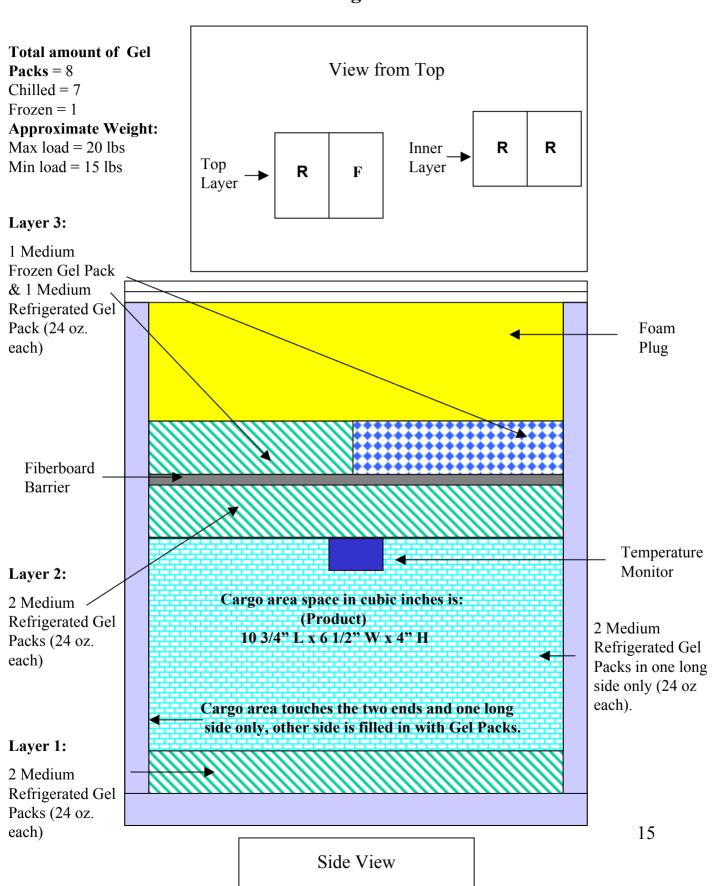
Large (ISC Box, E-186) – Moderate Weather Packing Protocols Diagram



Medium (ISC Box, E-65) – Moderate Weather Packing Protocols Diagram



Small (ISC Box E-36-2) – Moderate Weather Packing Protocols Diagram



Warm Weather Packing Protocol

- Warm Weather Configuration is used when the ambient temperature at the receiving site is consistently above 77° F.
- Protocols are designed to keep temperature sensitive products requiring refrigeration temperatures between 2° C to 8° C within these temperature ranges during transportation, for up to 72 hours.
- 48 oz. and 24 oz. gel packs are used in all boxes for layering and void space filler.
- Coolant material must be placed in layers according to attached diagrams. Warm weather configuration uses a combination of refrigerated and frozen gel packs. Frozen gel packs are always farthest away from vaccine.

Warm Weather Packing Protocol Procedures

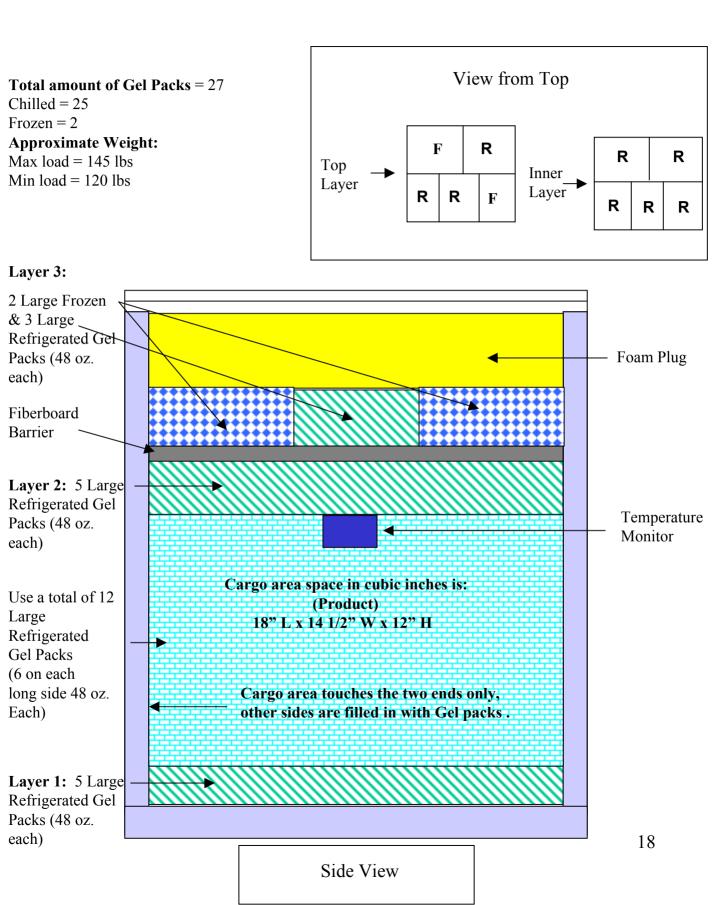
The Warm Weather Packing Protocol is used whenever the ambient or outside temperature at the receiving site is consistently above 77 degrees Fahrenheit. Begin the Warm Weather packing protocol by:

- o Placing a layer of refrigerated gel packs at the bottom of the box.
- o Next item will be the product.
- o Place gel packs around the product's side(s) to fill in gap between product and the insulated walls of the box.
- o This is followed by placing an activated TempTale electronic temperature monitor on top of the product, activate the TempTale temperature monitor by inserting the tip of an ink pen in the black plastic hole at the bottom of the TempTale, once the button is released the green light located in the face of the TempTale should blink eight (8) times, wait 10 to 20 seconds and press again, this time the green light should blink twice (2), the TempTale is now activated, peel off the tape in the back of the TempTale and place it centered on top of the product.
 - o Follow with another layer(s) of refrigerated gel packs.
 - o Above the second layer of refrigerated gel packs insert a fiberboard barrier.
- o Add a final layer of a combination of refrigerated and frozen gel packs above the fiberboard barrier.
 - o Finally, insert the foam plug to seal the contents of the box.

Notes:

- o Follow procedures according to each protocol diagram of ISC box used.
- o To chill large amounts of gel packs at once, place gel pack boxes inside a refrigerator that has been set to 4° C for at least 30 days prior to use.
- o To quickly chill small amounts of gel packs, place them in a single layer inside a refrigerator as explained above for at least 24 hours prior use.
- o To freeze large amounts of gel packs at once, place gel pack boxes inside a freezer that has been set to -17°C for at least 30 days prior use.
- o To quickly freeze small amounts of gel packs, place them in a single layer inside a refrigerator as explained above for at least 24 hours prior to use (lay them flat to ensure they maintain their original shape once they are frozen).

Large (ISC Box, E-327) – Warm Weather Packing Protocol Diagram



Large (ISC Box, E-186) - Warm Weather Packing Protocol Diagram

Total amount of Gel Packs:

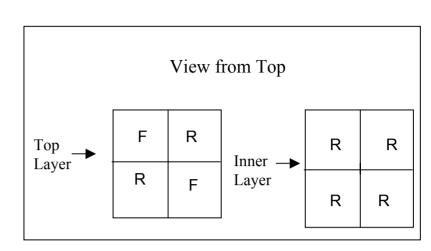
Chilled = 15

Frozen = 2

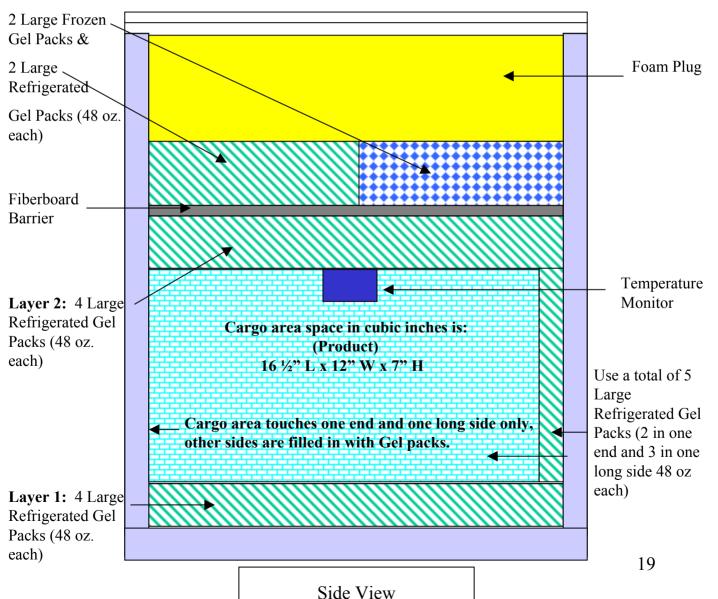
Approximate Weight:

Max load = 75 lbs

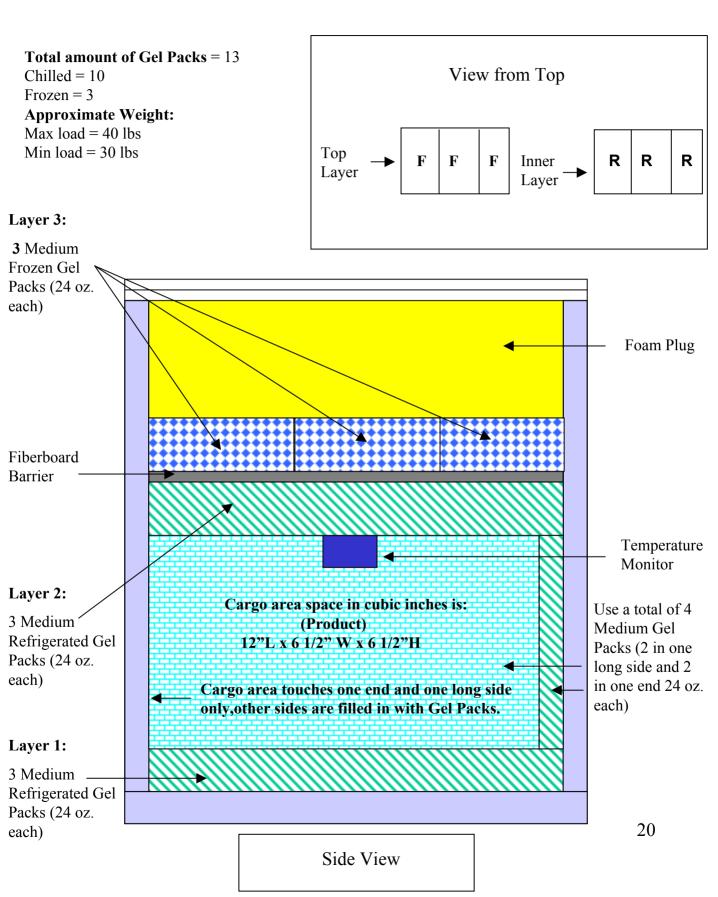
Min load = 50 lbs



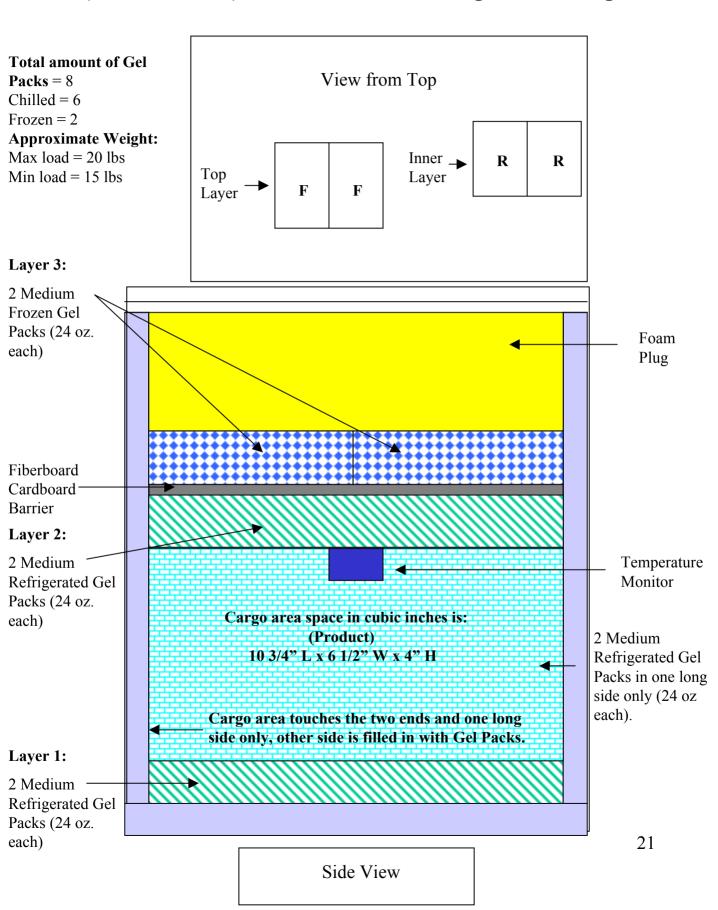
Layer 3:



Medium (ISC Box, E-65) – Warm Weather Packing Protocol Diagram

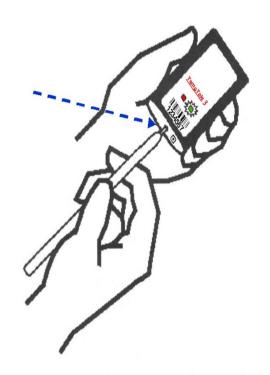


Small (ISC Box E-36-2) – Warm Weather Packing Protocol Diagram



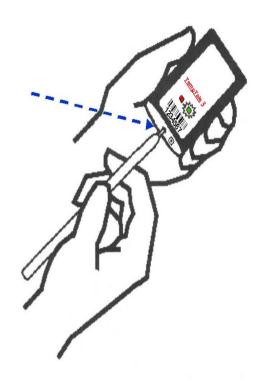
Instructions for Starting a TempTale

- Locate the start button on the end of the TempTale(start button is the black opening; do not insert anything into the opening with the silver ring.)
- While looking at the red & green lights on the face of the TempTale, depress the start button with a pen and release.
- When the monitor is activated the LEDs on the face of the monitor will flash (8) eight times.
- Wait about 2 minutes(start-up delay) and press the start button again, then it should blink **twice.** The monitor is now activated. Peel the paper from the adhesive strip & stick the TempTale to the product to reduce movement of the TempTale during shipment.



Instructions for Reading a TempTale

- Locate the start button on the end of the TempTale(start button is the black opening; do not insert anything into the opening with the silver ring.)
- While looking at the red & green lights on the face of the TempTale, depress the start button with a pen and release.
- Either the red light or the green light will flash on the monitor.
- The green light indicates that the shipment was completed within the set temperature limits of the monitor. The red light indicates that temperature limits set on the monitor were exceeded.



TempTale Temperature Monitor (Green Light Check and Green Light Release Procedures)

- 1. **Green Light Check** is performed to ensure that the product has arrived within its temperature range. This procedure is mandatory for all shipments to all locations in the Continental United States (CONUS) and Outside the Continent of the United States (OCONUS.
 - o Inspect the package and contents for damage.
- o Open the container and remove the packing materials until you reach the TempTale monitor.
- o When looking at the face of the TempTale monitor, you will notice two holes towards the bottom of the label. One hole is a red light and the other hole is a green light.

Turn the bottom of the TempTale towards you. You will notice to holes. One hole will have a silver ring around it and the other hole will not.

- o While observing the lights on the face of the TempTale monitor. Insert a pen in the hole without the silver ring. One of the lights will flash at you.
 - o If the light is Green. Your product has arrived within its temperature range.
 - o If the light is Red. Your product may have been compromised. Contact the immediately, for further instructions.

Place the product into refrigeration and segregate from other good products until this particular product has been released for use.

o The product is not release for use until you get approval from the
o Return the TempTale and any other material back to

- 2. **Green Light Release** is performed whenever the receiving activity is requesting to use the product immediately.
 - o Inspect the package and contents for damage.
- o Prior to opening the container contact Distribution Operations Center at 301-619-4318.
- o Open the container and remove the packing materials until you reach the TempTale monitor.
- o When looking at the face of the TempTale monitor, you will notice two holes towards the bottom of the label. One hole is a red light and the other hole is a green light.
- o Turn the bottom of the TempTale towards you again you will notice two holes. One hole will have a silver ring around it and the other hole will not.
- o While observing the lights on the face of the TempTale monitor. Insert a pen in the hole without the silver ring. One of the lights will flash at you.
- o If the light is Green. Your product has arrived within its proper temperature range. At this time the ______ will release the product for use.

 o If the light is Red. Your product may have been compromised. The will provide further instructions.